



**DRAFT  
ENVIRONMENTAL ASSESSMENT/FONSI**

**Transfer of Stored Water from  
Westlands Water District to  
Semitropic Water Storage District**

U.S. Department of the Interior  
Bureau of Reclamation  
Mid Pacific Region  
Sacramento, California

August 2008



**United States Department of Interior  
Bureau of Reclamation  
Mid-Pacific Region  
Sacramento, CA**

**FINDING OF NO SIGNIFICANT IMPACT**

**Transfer of Stored Water from Westlands Water District to Semitropic**

**Water Storage District**

**Recommended:** \_\_\_\_\_  
Natural Resources Specialist Date  
Mid-Pacific Regional Office

**Concur:** \_\_\_\_\_  
Program Manager Date  
Mid-Pacific Regional Office

**Concur:** \_\_\_\_\_  
Project Management Branch Chief Date  
Mid-Pacific Regional Office

**Approved:** \_\_\_\_\_  
Regional Resources Manager Date  
Mid-Pacific Regional Office

## **Finding of No Significant Impact**

### **Transfer of Stored Water from Westlands Water District to Semitropic**

#### **Water Storage District**

Westlands Water District (Westlands) has been participating in groundwater banking at Semitropic Water Storage District (Semitropic) since 2005 as allowed under Article 3 (d) of Westlands' interim renewal contract, Contract No. 14-06-22-495A-IR1. Westlands has requested Bureau of Reclamation (Reclamation) approval of a proposal to transfer up to 8,086 acre-feet (AF) of Westlands' water previously stored in Semitropic to Semitropic for Semitropic's use to support existing agricultural irrigation.

Reclamation proposes to approve the transfer of up to 8,086 AF of previously stored water from Westlands to Semitropic. Reclamation is working to develop groundwater banking and water transfer guidelines and criteria. Approval of this and future proposals to transfer previously stored water will be subject to, and may be revised as necessary, to be consistent with any final guidelines, criteria, regulations, or policies governing the banking of Central Valley Project (CVP) water.

A draft environmental assessment (EA) was prepared that evaluates the potential environmental impacts, beneficial and adverse, associated with the proposed action and a no action alternative. The draft EA is attached for reference.

In accordance with the National Environmental Policy Act of 1969, as amended, Reclamation has found that the approval of the proposed transfer of up to 8,086 AF of previously stored water from Westlands to Semitropic will not result in a significant adverse impact on the environment. Therefore, an Environmental Impact Statement is not required. Reclamation's finding that implementation of the proposed action will result in no significant impact to the quality of the human environment is supported by the following factors:

**Water and Land Management:** The up to 8,086 acre-feet of water that will be transferred to Semitropic under the proposed action will be used for Semitropic's support of existing agricultural uses, and will occur within the CVP Place of Use. The proposed action will result in no substantial change or impact to CVP operations or to Delta pumping by the CVP.

**Biological Resources:** The proposed action will involve transfer of water previously banked at Semitropic, so the water will not physically move. The proposed action will not change how water or land is managed. The water transferred under the proposed action will be used to support irrigated lands already in agricultural production. No waterways or nesting areas will be created, destroyed or modified in any way under the proposed action. Also, with implementation of the proposed action, CVP operations will be consistent with existing operating and conveyance agreements. The proposed action

will be consistent with the actions covered by previous analyses and will not result in any changes from existing operations or conditions.

Because of the previously discussed factors, Reclamation has determined that the proposed action will have no effect on special status species with the potential to occur in the project area of effect. Therefore, no further consultation is required under Section 7 of the Endangered Species Act. However, the draft EA is being prepared in coordination with the U.S. Fish and Wildlife Service.

**Cultural Resources:** The proposed action will not involve any ground-disturbing activities and will not change inundation or drainage patterns. The proposed action is not the type of action that has the potential to affect historic properties as defined in the regulations at 36 CFR Part 800. As a result, Reclamation will not initiate the Section 106 process of the National Historic Preservation Act.

**Indian Trust Assets:** No Indian Trust Assets occur within the project area. Under the proposed action, there will be no alterations of existing water rights. Therefore, no impacts to Indian Trust Assets will occur as a result of the proposed action alternative.

**Environmental Justice:** No long term changes in agricultural practices or communities will result from this transfer. Accordingly, the proposed action will not have any significant or disproportionately negative impact on low-income or minority individuals within the project area.

**Cumulative Impacts:** The cumulative effects of the proposed action and other reasonably foreseeable actions as described in the Draft EA, will include:

- Westlands:
  - Transfer up to 8,086 AF of previously banked water to Semitropic
  - Receive 4,350 AF return of previously banked water, via exchange, from Semitropic
  - Receive up to 650 AF of 2008 South of Delta CVP water via transfer from Del Puerto Water District (DPWD)
- Semitropic:
  - Receive up to 8,086 AF via transfer from Westlands (water previously banked at Semitropic)
  - Transfer up to 7,436 AF to Wheeler Ridge-Maricopa Water Storage District (WRMWS D)
  - Transfer up to 650 AF of 2008 State Water Project (SWP) Table A water to Oak Flat Water District (OFWD)

- WRMWSD:
  - Receive up to 7,436 AF
- OFWD:
  - Receive up to 650 AF of 2008 SWP Table A water via transfer from Semitropic
- DPWD:
  - Transfer up to 650 AF of 2008 South of Delta Central Valley Project water to Westlands

The voluntary fallowing in DPWD will be for one season only and will only involve approximately 0.5% of the 45,000 acres of agricultural land served by DPWD, and therefore will not constitute a land use change. Should drought conditions and water supply shortages dictate fallowing next year, it is anticipated that this acreage would be planted again and different acreage would be fallowed as necessary. Therefore, the proposed action will not cumulatively contribute to any long term land or water use changes.

Because these actions will involve South of Delta water supplies and service areas, they will result in no change to CVP operations or Delta pumping by the CVP. These actions will utilize existing conveyance facilities that are not managed for fisheries. No special status species occur in the conveyance facilities that will be utilized. The proposed voluntary land fallowing in DPWD that will assist the proposed transfer of up to 650 AF of water to Westlands is not anticipated to have any effect on any species, including special status species, as it will be a short term action lasting only one season.

The proposed action will involve relatively small amounts of water and will not contribute to any long term land or water use changes or affect any other resource categories. Therefore, the proposed action will not significantly contribute to a cumulative impact on any resource category.

# **DRAFT ENVIRONMENTAL ASSESSMENT**

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# **DRAFT ENVIRONMENTAL ASSESSMENT**

## **1. INTRODUCTION**

Westlands Water District (Westlands) has been participating in groundwater banking at Semitropic Water Storage District (Semitropic) since 2005 as allowed under Article 3 (d) of Westlands' interim renewal contract, Contract No. 14-06-22-495A-IR1. Westlands Water District currently has 21,571 acre-feet (AF) of water that has been stored in Semitropic for more than 365 days. Westlands has requested Bureau of Reclamation (Reclamation) approval of a proposal to transfer up to 8,086 acre-feet (AF) of Westlands' water previously stored in Semitropic to Semitropic for Semitropic's use to support existing agricultural irrigation. Transfers are authorized pursuant to the following contracting authorities and guidelines as amended and updated and/or superseded:

- Title XXXIV CVPIA October 30, 1992, Section 3405 (a)
- Reclamation Reform Act (RRA), October 12, 1982, Section 226
- Interim Renewal Water Service Contracts for San Luis Unit
- Reclamation's Interim Guidelines for Implementation of Water Transfers Under Title XXXIV of Public Law 102-575 (Water Transfer) February 25, 1993
- Reclamation and United States Fish and Wildlife Service (USFWS) Region 1, Final Administrative Proposal on Water Transfers April 16, 1998
- Reclamation's Regional Letter, Delegation of Regional Functional Responsibilities regarding Water Transfers from the Regional Director to the Area Offices, Number 08-01 March 17, 2008

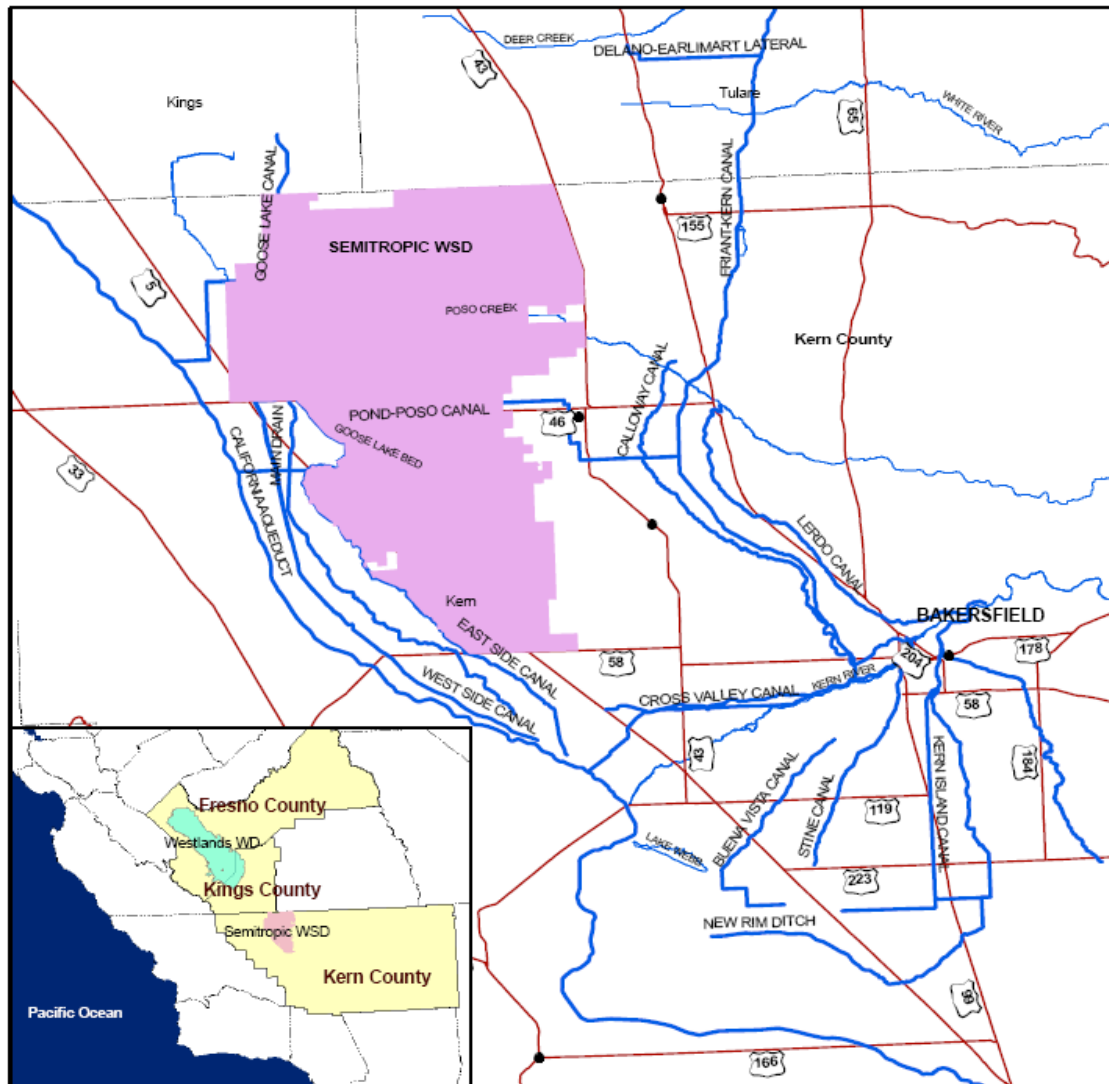
In accordance with the National Environmental Policy Act (NEPA), this draft Environmental Assessment (EA) has been prepared to evaluate and disclose any potential environmental impacts associated with Reclamation's approval of this proposed transfer.

### **1.1 PURPOSE AND NEED**

On June 4, 2008, Governor Arnold Schwarzenegger signed Executive Order S-06-08 proclaiming a condition of statewide drought, and ordered the Department of Water Resources (DWR) to take immediate action to address the serious drought conditions and water delivery limitations currently existing and anticipated in the future in California. There is a need for flexibility in water management to address these conditions and limitations. One potential mechanism identified is to facilitate water transfers to respond to emergency shortages. The purpose of the proposed action is to facilitate efficient water management and flexibility through the transfer of water from Westlands to Semitropic to support irrigation of existing crops.







### Legend

- City locations CANV
- Canals
- Highways
- Rivers
- Canals
- Semitropic WSD
- Westlands WWD

**Figure 1-2**  
**Semitropic Water Storage District**  
**General Location Map**



Date: November 17, 2005  
 Path Name: K:\myproj\project\Tracy WD.mxd

## **2. ALTERNATIVES**

### **2.1 No Action Alternative**

Under the no action alternative, Reclamation would not approve Westlands' request to transfer up to 8,086 AF of previously stored water to Semitropic prior to January 26, 2012.

### **2.2 Proposed Action**

Reclamation proposes to approve the transfer of up to 8,086 AF of previously stored water from Westlands to Semitropic prior to January 26, 2012. Because it would involve water that Westlands had previously banked at Semitropic, water would not physically move under the proposed action. Reclamation is working to develop groundwater banking and water transfer guidelines and criteria. Approval of this and future proposals to transfer previously stored water, however, will be subject to, and may be revised as necessary, to be consistent with any final guidelines, criteria, regulations, or policies governing the banking of Central Valley Project (CVP) water.

## **3. AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES**

Several resource categories would not be affected by the proposed action, and therefore are eliminated from further detailed discussion: climate and air quality; soils, geology and mineral resources; topography; noise; transportation and traffic; recreation; aesthetics; hazardous materials, socioeconomics, and public services and utilities.

### **3.1 Water and Land Management**

#### ***Affected Environment***

##### **Westlands**

Westlands encompasses more than 600,000 acres of farmland located in western Fresno and Kings Counties and serves approximately 600 family owned farms. Westlands crop demand to irrigate the District is 1,500,000 AF. Contract entitlement is about 1,180,000 AF, and safe yield from aquifer is about 135,000 AF - 200,000 AF. In 2008-09, the District allocation is 40% of contract entitlement, or about 471,675AF. The District currently has a considerable amount of fallowed acreage, and many growers shifted to winter crops (such as wheat) to preserve more water for summer row crops and permanent plantings.

##### **Groundwater**

Westlands is located above the alluvial fan deposits between the eastward dipping marine deposits of the Coast Range and the alluvium filled San Joaquin Valley. The groundwater basin

underlying Westlands is comprised generally of two water-bearing zones: (1) an upper zone above a nearly impervious Corcoran Clay layer containing the Coastal and Sierran aquifers and (2) a lower zone below the Corcoran Clay containing the sub-Corcoran aquifer. These water-bearing zones are recharged by subsurface inflow primarily from the west and northeast, percolation of groundwater, and imported and local surface water. The Corcoran Clay separates the upper and lower water-bearing zones in the majority of Westlands. The Corcoran Clay is not continuous in the western portion of Westlands.

Groundwater pumping started in this portion of the San Joaquin Valley in the early 1900's. Prior to delivery of CVP water, the annual groundwater pumpage in Westlands ranged from 800,000 to 1,000,000 AF per year during the period of 1950-1968. The majority of this pumping was from the aquifer below the Corcoran Clay, causing the sub-Corcoran piezometric ground water surface to reach the lowest record average elevation of more than 150 feet below mean sea level by 1968. The large quantity of groundwater pumped prior to delivery of CVP water caused a significant amount of land subsidence in some areas. Subsidence permanently reduces the aquifer capacity because of the compaction of the water-bearing sediments. Westlands has implemented a groundwater management program to reduce the potential for future extreme subsidence. After implementation of the CVP operations in Westlands, groundwater pumping declined to about 200,000 AF per year, or less, in the 1970's. The reduction in groundwater pumping stabilized groundwater depths and in most portions of Westlands, groundwater levels significantly recovered.

During the early 1990's, groundwater pumping increased tremendously because of the reduced CVP water supplies caused by an extended drought, and regulatory actions related to the Central Valley Project Improvement Act (CVPIA), Endangered Species Act (ESA), and Bay/Delta water quality actions. Groundwater pumping quantities are estimated to have reached 600,000 AF per year during 1991 and 1992 when Westlands received only 25 percent of its contractual entitlement of CVP water. The increase in pumping caused a decline in groundwater levels, but has since recovered. Normal or near normal CVP water supplies from 1995 – 1999 have reduced the estimated annual quantity of groundwater pumped to approximately 60,000 AF per year, resulting in an increase in water surface elevations. However, since 2000, Westland's water supply has been considerably reduced resulting in groundwater pumping to increase to over 200,000 AF per year.

### **Semitropic**

Semitropic is located in north-central Kern County in the San Joaquin Valley, about 20 miles northwest of the City of Bakersfield. The total area of Semitropic is 220,000 acres with about 159,000 acres irrigated. Annual crop demands in Semitropic are about 477,000 AF per year. As a member unit of the Kern County Water Agency (KCWA), Semitropic has State Water Project (SWP) entitlement of 133,000 AF. In 2008, the SWP allocation is 35%, or about 46,550 AF for Semitropic.

### **Semitropic Bank**

During the 1960's, Semitropic developed plans for main conveyance and distribution system facilities to extend from the California Aqueduct to farm delivery locations. Prior to these deliveries, the irrigated agriculture within Semitropic was totally dependent on pumping the underlying groundwater.

In 1995, Semitropic began implementation of the Semitropic Groundwater Banking and Exchange Program. The Program is a long-term water storage program designed to recharge groundwater and reduce overdraft, increase operational reliability and flexibility, and optimize the distribution and use of available water resources between Semitropic and potential banking partners. Under the program, the banking partner would deliver a portion of its unused SWP, CVP or other surface water supplies to Semitropic during periods when such water is available. Semitropic may use this water in lieu of pumping groundwater for irrigation or directly recharge the underlying groundwater basin. Upon request, Semitropic would return the banking partner's previously stored water by exchange. The banking partner's stored water may be pumped from Semitropic's groundwater basin through pumpback facilities into the California Aqueduct and provided to DWR in exchange for SWP water delivered to the partners from the Delta; or Semitropic would retain the stored water for its own use in exchange for an equivalent portion of its SWP water supply. Under the first method (delivery of recovered banked water to the California Aqueduct), the water is delivered to the SWP water supply pool from which deliveries would be made to the banking partners (Semitropic, 1997).

Semitropic's Banking Program capacity is 1,000,000 AF. Total program annual withdrawal amounts are restricted by the size of the pump-back facility, contemporaneous scheduled SWP deliveries to the Groundwater Bank, and the proportion of the total program capacity that has been contracted to other banking partners. The annual withdrawal capacity includes up to 133,000 AF of SWP water that could be exchanged within the California Aqueduct, and/or an additional 90,000 AF per year of groundwater extraction to the California Aqueduct. Thus, the return capacity of the original program is a minimum of 90,000 AF per year, and a maximum of 223,000 AF per year (Semitropic, 1997).

### **Groundwater**

The Tulare Lake Hydrologic Region comprises the drainage area of the San Joaquin Valley south of the San Joaquin River. The Tulare Lake Hydrologic Region is essentially a closed basin since surface water drains north into the San Joaquin River only in years of extreme rainfall. The San Joaquin Valley Groundwater Basin is the largest basin in the Tulare Lake Hydrologic Region. It is divided into six groundwater sub-basins: Kern County, Tulare Lake, Tule, Kaweah, Kings and Westside sub-basins.

Semitropic resides within the Kern County groundwater sub-basin. The Kern County groundwater sub-basin includes the Kern River and the Poso Creek drainage areas, as well as the drainage areas of west-side streams in Kern County. The Kern County sub-basin has been identified by DWR as being critically over drafted. By definition, "a basin is subject to critical conditions of overdraft when continuation of present water management practices would probably result in significant adverse overdraft-related environmental, social, or economic impacts".

Extensive groundwater recharge programs, or water banks, are in place in the south valley where water districts have recharged several million acre-feet of surplus water for future use and transfer through water banking programs. For more than 100 years, water supply and irrigation districts throughout the region have used conjunctive use to maximize water supply and maintain the groundwater system. Other conjunctive use activities throughout the valley include water exchange and transfer programs. If groundwater extraction continues to be used to offset anticipated but unmet surface water imports, it would have negative consequences.

One such effect of long-term groundwater overdraft is land subsidence, which also results in a

loss of aquifer storage space. This has already caused some damage to canals, utilities, pipelines, and roads in the region. Another effect of long-term groundwater overdraft is groundwater quality degradation. Groundwater overdraft in a basin can produce a gradient that induces movement of water from adjacent areas. If the adjacent areas contain poor quality water, degradation can occur in the basin. Many water agencies have adopted groundwater replenishment programs and have taken advantage of excess water supplies available in wet years, incidental deep percolation, and seepage from unlined canals, in an effort to prevent groundwater overdraft that could result in land subsidence and water quality degradation.

A groundwater monitoring program was established in 1994 to develop information so that any adverse groundwater impacts of the Semitropic water banking project could be mitigated. The monitoring program is overseen by a committee made up of Semitropic, adjoining districts (including Buena Vista Water Storage District, Rosedale-Rio Bravo Water Storage District, Shafter-Wasco Irrigation District, North Kern Water Storage District, and Southern San Joaquin Municipal Utility District), and banking participants. Kern County Water Agency and DWR are interested parties and participate in committee activities and water scheduling. Monitoring has included water level measurement in monitoring wells and groundwater quality (including salinity and nitrate) evaluations (Semitropic, 1994).

In addition, activities of Semitropic and the adjoining activities that affect groundwater conditions have been obtained and compiled. Included are diversions of surface water into each district, crop surveys and estimates of crop consumptive use, and, where available, groundwater pumping data. A report on the committee's activity and groundwater conditions is published every two years.

Further information on the affected environment in these water districts is included in Reclamation's 2006 Storage and Exchange of Central Valley Project Water Westlands Water District to Semitropic Water Storage District EA/FONSI, which is hereby incorporated by reference.

## ***Environmental Consequences***

### **No Action**

Under the no action alternative, the additional water supply of up to 8,086 AF would not be available for use to support irrigation of existing crops in Semitropic.

### **Proposed Action**

The up to 8,086 AF of water that would be transferred to Semitropic under the proposed action would be used for Semitropic's support of existing agricultural uses, and would occur within the CVP Place of Use. The proposed action would involve previously banked water, and thus would result in no change or impact to CVP operations or to Delta pumping by the CVP. Since Westlands has control over initiating the proposal for this transfer, the reasonable assumption is made that Westlands would not be negatively impacted regarding needed water deliveries, otherwise they would not have requested Reclamation approval of the transfer.

The remainder of Westlands' previously banked water would be available for return to Westlands, upon approval, to offset shortages as needed in Westlands for the near future,

which could provide surface water to offset dependence on groundwater in the near term during the current dry period. Once this supply is exhausted, however, Poso Creek lands in Westlands would rely more heavily on groundwater. However, potential banking during future wet periods could potentially reduce dependence on groundwater. The proposed action would further sustain the Semitropic groundwater aquifer, and provide recharge (a deposit of groundwater) for the benefit of Semitropic to offset groundwater extraction occurring to meet crop demands on District farmlands.

### **3.2 Biological Resources**

#### ***Affected Environment***

The biological resources in Westlands and Semitropic are similar to those found in other agricultural areas of the San Joaquin Valley. The potentially affected area is dominated by agricultural habitat that includes field crops, orchards and pasture. Vegetation consists primarily of crops, and frequently includes weedy non-native annual and biennial plants. A list of federally listed, proposed and candidate species potentially occurring in Fresno, Kern and Kings Counties was obtained on July 30, 2008 by accessing the U.S. Fish and Wildlife (FWS) Database (Appendix).

#### ***Environmental Consequences***

##### **No Action**

Under the no action alternative, no water would be transferred, which is not anticipated to have an impact on fish and wildlife resources.

##### **Proposed Action**

The proposed action would have no effect on any biological resources, including special status species. Because it would involve water that Westlands had previously banked at Semitropic, water would not physically move under the proposed action. The proposed action would not change how water or land is managed. The water transferred under the proposed action would be used to support irrigated lands already in agricultural production.

Also, with implementation of the proposed action, CVP operations would be consistent with existing operating and conveyance agreements. The proposed action would be consistent with the actions covered by previous analyses and would not result in any changes from existing operations or conditions.

Because of the previously discussed factors, Reclamation has determined that the proposed action would have no effect on special status species with the potential to occur in the project area of effect. Therefore, no further consultation is required under Section 7 of the Endangered Species Act. However, this draft EA is being prepared in coordination with the Fish and Wildlife Service (Service).

### **3.3 Cultural Resources**

### ***Affected Environment***

Cultural resources is a term used to describe both ‘archaeological sites’ depicting evidence of past human use of the landscape and the ‘built environment’ which is represented in structures such as dams, roadways, and buildings. The National Historic Preservation Act (NHPA) of 1966 is the primary Federal legislation which outlines the Federal Government’s responsibility to cultural resources. Section 106 of the NHPA requires the Federal Government to take into consideration the effects of an undertaking on cultural resources listed on or eligible for inclusion in the National Register of Historic Places (National Register). Those resources that are on or eligible for inclusion in the National Register are referred to as historic properties.

The Section 106 process is outlined in the Federal regulations at 36 CFR Part 800. These regulations describe the process that the Federal agency (Reclamation) takes to identify cultural resources and the level of effect that the proposed undertaking will have on historic properties. In summary, Reclamation must first determine if the action is the type of action that has the potential to affect historic properties. If the action is the type of action to affect historic properties, Reclamation must identify the area of potential effects (APE), determine if historic properties are present within that APE, determine the effect that the undertaking will have on historic properties, and consult with the State Historic Preservation Office (SHPO), to seek concurrence on Reclamation’s findings. In addition, Reclamation is required through the Section 106 process to consult with Indian Tribes concerning the identification of sites of religious or cultural significance, and consult with individuals or groups who are entitled to be consulting parties or have requested to be consulting parties.

### ***Environmental Consequences***

#### **No Action**

The no action alternative would not result in an undertaking. There would be no change to existing conditions. Without an undertaking as defined by Section 301 of the NHPA, Reclamation would not initiate the Section 106 process. The no action alternative would result in no impacts to cultural resources.

#### **Proposed Action**

The proposed action would involve the redistribution of water through existing facilities. There would be no modification of water conveyance facilities and no activities that would result in ground disturbance. This action is administrative in nature and has no potential to affect historic properties pursuant to the regulations at 36 CFR Part 800.3(a)(1). Because there is no potential to affect historic properties, no cultural resources would be impacted as a result of implementing the proposed action.

## **4. OTHER CONSIDERATIONS**

#### **4.1 Indian Trust Assets**

Indian Trust Assets (ITAs) are legal interests in property or rights held in trust by the United States for Indian Tribes or individuals. Trust status originates from rights imparted by treaties, statutes, or executive orders. These rights are reserved for or granted to tribes. A defining characteristic of an ITA is that such assets cannot be sold, leased, or otherwise alienated without Federal approval.

Indian reservations, rancherias, and allotments are common ITAs. Allotments can occur both within and outside of reservation boundaries and are parcels of land where title is held in trust for specific individuals. Additionally, ITAs include the right to access certain traditional use areas and perform certain traditional activities.

It is Reclamation policy to protect ITAs from adverse impacts of its programs and activities whenever possible. Types of actions that could affect ITAs include an interference with the exercise of a reserved water right, degradation of water quality where there is a water right, impacts on fish and wildlife where there is a hunting or fishing right, or noise near a land asset where it adversely affects uses of the reserved land.

The nearest ITA to Westlands is Santa Rosa Rancheria, which is approximately 6 miles east of the project location. The nearest ITA to Semitropic is Santa Rosa Rancheria, which is approximately 32 miles NNW of the project location.

#### ***Environmental Consequences***

No ITAs occur within the project area. Under the proposed action, there would be no alterations of existing water rights. Therefore, no impacts to ITAs would occur as a result of the no action or proposed action alternatives.

#### **4.2 Environmental Justice**

Executive Order 12898 requires each Federal agency to achieve environmental justice as part of its mission, by identifying and addressing disproportionately high adverse human health or environmental effects, including social and economic effects, of its programs and activities on minority populations and low-income populations of the United States.

#### ***Environmental Consequences***

The no action alternative would have no effect on low-income or minority individuals within the project area.

No significant changes in agricultural communities or practices would result from the proposed action.



## 5. CUMULATIVE IMPACTS

According to the Council on Environmental Quality (CEQ) regulations for implementing the procedural provisions of NEPA Guidelines section 15065(a)(3), a cumulative impact is defined as the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-Federal) or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.

Westlands has worked closely with Poso Creek Water Company, LLC (Poso Creek) to develop and enter into a long term agreement in which Poso Creek is a full banking partner invested at 60,000 AF of guaranteed storage capacity in the Semitropic water bank. Poso Creek, as facilitated by cooperation with Westlands, has banked a net balance of 21,572 AF of CVP water stored within Semitropic. This CVP water was banked during 2005-2007 under several separate actions. The environmental impacts of these previous banking actions were analyzed in the EAs titled, *Storage and Exchange of Central Valley Project Water Westland Water District in Semitropic Water Storage District, Final Environmental Assessment, November 2005(EA05-96)*; *Storage of Central Valley Project Water from Westland Water District in Semitropic Water Storage District, September 2006 (EA06-78)*; *Storage of Central Valley Project Water from Westland Water District in Semitropic Water Storage District, September 2006 (EA06-78)*; and *Madera Irrigation District Transfer, Banking and Exchange of Friant Central Valley Project water to Westlands Water District as Facilitated by North Kern Water Storage District and Kern County Water Agency, January 2007(EA07-01)*.

Following the transfer described in the proposed action, Westlands has proposed a water transfer mechanism that considers that Semitropic transfer up to 7,436 AF of their State Water Project (SWP) Table A water (allocated to them by Kern County Water Agency (KCWA)) to Wheeler Ridge-Maricopa Water Storage District (WRMWSD). Westlands has agreed to cooperate with the transfer to Semitropic to allow a subsequent transfer to WRMWSD in order to help meet some of the anticipated crop water demand shortages on Poso Creek lands within WRMWSD. While some of Poso Creek's owners have land in Westlands that includes approximately 5,700 acres of permanent plantings, some of Poso Creek's ownership also own about 10,000 acres of permanent plantings in WRMWSD. Westlands recognizes the unique nature of Poso Creek's banking assets, its common landownership in WRMWSD, and desires to assist one of Westlands landowners with a water shortage in Kern County. Semitropic would make the water available for delivery via WRMWSD turnouts in Reaches 14A-16A of the California Aqueduct to meet crop demands on Poso Creek's lands within WRMWSD.

Westlands has also proposed a water transfer mechanism that considers that following the initial transfer described in the proposed action, Semitropic transfer up to 650 AF of their State Water Project (SWP) Table A water to Oak Flat Water District (OFWD). Because

of the existing drought conditions, OFWD needs additional water in 2008 for irrigation of permanent orchard crops. The water would be delivered via turnouts in Reach 2A of the California Aqueduct.

The decision to make both of these transfers falls under the discretion of Semitropic and KCWA, and is beyond the scope of the Federal decision of approving the transfer of previously stored water from Westlands to Semitropic. Approval of these transfers would fall under the discretion of the State of California Department of Water Resources. However, Reclamation's approval of the transfer of up to 8,086 AF of Westlands' previously stored water to Semitropic may make additional water available for Semitropic to transfer to other entities.

The water transfer mechanism proposed by Westlands for transferring up to 650 AF to OFWD also indicates that common landowners within OFWD and Del Puerto Water District (DPWD), a CVP Contractor, have agreed to fallow approximately 250 acres in 2008 consisting of 50 acres of walnuts (typical crop water use of 3.0 AF/Acre), 130 acres of almonds (typical crop water use of 3.0 AF/Acre) and 70 acres of corn (typical crop water use of 3.7 AF/Acre), suggesting an average crop water use of about 3.2AF/acre, or a total of approximately 800 AF for the 250 acres. These acres have been fallowed in order to allow a transfer of up to 650 AF of DPWD's 2008 south of Delta CVP water to Westlands using existing conveyance facilities. This transfer would be implemented under the CVPIA accelerated water transfer protocol, for which potential environmental impacts were analyzed and disclosed in the 2006 *Accelerated Water Transfers and Exchanges South of Delta Contractors EA and FONSI*.

Also in addition to the proposed action, Westlands has requested that Reclamation approve the return, by exchange with Semitropic, of up to 4,350 AF of water that was previously banked in Semitropic. This water would be used in Westlands' Service Area. The potential environmental impacts of the banking and return of this water were analyzed and disclosed in the 2006 *Storage and Exchange of Central Valley Project Water Westlands Water District to Semitropic Water Storage District Environmental Assessment and Finding of No Significant Impact*.

The cumulative effects of the proposed action and these other actions, would include:

- Westlands would:
  - Transfer up to 8,086 AF of previously banked water to Semitropic
  - Receive 4,350 AF return of previously banked water, via exchange, from Semitropic
  - Receive up to 650 AF of 2008 South of Delta CVP water via transfer from DPWD
- Semitropic would:

- Receive up to 8,086 AF via transfer from Westlands (water previously banked at Semitropic)
- Transfer up to 7,436 AF to WRMWSD
- Transfer up to 650 AF of 2008 SWP Table A water to OFWD
- WRMWSD would receive up to 7,436 AF
- OFWD would:
  - Receive up to 650 AF of 2008 SWP Table A water via transfer from Semitropic
- DPWD would:
  - Transfer up to 650 AF of 2008 South of Delta CVP water to Westlands

The voluntary fallowing in DPWD would be for one season only and would only involve approximately 0.5% of the 45,000 acres of agricultural land served by DPWD, and therefore would not constitute a land use change. Should drought conditions and water supply shortages dictate fallowing next year, it is anticipated that this acreage would be planted again and different acreage would be fallowed as necessary. Therefore, the proposed action would not cumulatively contribute to any long term land or water use changes.

Because these actions would involve South of Delta water supplies and service areas, they would result in no change to CVP operations or Delta pumping by the CVP. These actions would utilize existing conveyance facilities that are not managed for fisheries. No special status species occur in the conveyance facilities that would be utilized. The proposed voluntary land fallowing in DPWD is not anticipated to have any effect on any species, including special status species, as it would be a short term action lasting only one season.

The proposed action would involve relatively small amounts of water and would not contribute to any long term land or water use changes or affect any other resource categories. Therefore, the proposed action would not significantly contribute to a cumulative impact on any resource category.

## **6. CONSULTATION/COORDINATION**

This draft EA has been prepared in accordance with the requirements of NEPA. Reclamation is also complying with other applicable laws including the Clean Water Act of 1977, Clean Air Act of 1970, Endangered Species Act, Fish and Wildlife Coordination Act, National Historic Preservation Act of 1966, Executive Order 11988 - Flood Plain

Management, Executive Order 11990 - Protection of Wetlands, Farmland Protection Policy Act and the Wild and Scenic Rivers Act.

This draft EA is being prepared in coordination with the Service, Westlands, Semitropic, WRMWS, OFWD, DPWD and the State of California Department of Water Resources.

## **7. LIST OF PREPARERS AND REVIEWERS**

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## **8. PUBLIC INVOLVEMENT**

The draft EA and FONSI has been circulated to interested parties for a 30-day public review period, beginning August 1, 2008. It is also posted on Reclamation's Mid-Pacific (MP) Region NEPA website and the MP Region Water Acquisition website.

## **9. References**

Reclamation 1994. Semitropic Groundwater Banking Project EIS/EIR.

Reclamation 2005. Storage and Exchange of Central Valley Project Water Westland Water District in Semitropic Water Storage District Final EA/FONSI, November 2005 (EA05-96).

Reclamation 2006. Accelerated Water Transfers and Exchanges South of Delta Contractors Water Year 2006-2010.

Reclamation 2006. Storage and Exchange of Central Valley Project Water from Westlands Water District in Semitropic Water Storage District EA/FONSI (EA 06-78).

Reclamation 2007. Madera Irrigation District Transfer, Banking and Exchange of Friant Central Valley Project Water to Westlands Water District as Facilitated by North Kern Water Storage District and Kern County Water Agency (EA07-01).

Reclamation 2007. San Luis and Delta-Mendota Water Authority and San Joaquin River Exchange Contractors Water Authority Substitute Water Exchange Environmental Assessment.

The above information was used in preparing this EA and is incorporated into this document by reference. Sources for the referenced documentation may be obtained by contacting the Lead

Agency.

## **APPENDIX**

